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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/780,488	02/17/2004	Steven G. Goebel	GP-304183	1553
CARY W. BRO	7590 04/23/2007 OOKS	EXAMINER		
General Motors Corporation			YUAN, DAH WEI D	
Legal Staff, Mail Code 482-C23-B21 P.O. Box 300			ART UNIT	PAPER NUMBER
Detroit, MI 482	265-3000	1745		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
31 D	PAYS	04/23/2007	PAP	PER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)	. "
		10/780,488	GOEBEL, STEVEN G.	
	Office Action Summary	Examiner	Art Unit	
		Dah-Wei D. Yuan	1745	
Period fo	The MAILING DATE of this communication apport	pears on the cover sheet wi	th the correspondence address	_
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING DON'S INC. (1) INC. (2) INC. (3) MONTHS from the mailing date of this communication. Of period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNION 36(a). In no event, however, may a rewill apply and will expire SIX (6) MON a, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status				
1)[Responsive to communication(s) filed on			
<i>'</i> —	<u> </u>	 action is non-final.		
3)	Since this application is in condition for allowa		ers, prosecution as to the merits is	
٠,۵	closed in accordance with the practice under E	•	•	
Disposit	ion of Claims	,		
· _	Claim(s) 1-27 is/are pending in the application	•	•	
4)[2]	4a) Of the above claim(s) is/are withdra			
5)□	Claim(s) is/are allowed.	wit from consideration.		
· · · · · · · · · · · · · · · · · · ·	Claim(s) is/are rejected.			
•	Claim(s) is/are objected to.			
	Claim(s) 1-27 are subject to restriction and/or	election requirement.		
Applicat	ion Papers	· .		
	•			
	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc		by the Eveniner	
10)	Applicant may not request that any objection to the	•	•	
	Replacement drawing sheet(s) including the correct	•		
11)	The oath or declaration is objected to by the Ex	·	• • • • • • • • • • • • • • • • • • • •	•
•	under 35 U.S.C. § 119			
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-	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. 9	119(a)-(d) or (i).	
a)	Certified copies of the priority document	e have been received		
	Certified copies of the priority document Certified copies of the priority document		nnlication No	
	3. Copies of the certified copies of the prior		· •	
	application from the International Burea	•	received in this National Glage	
· * <	See the attached detailed Office action for a list	, , , ,	received.	
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Attachmen	nt(s)			
	ce of References Cited (PTO-892)	4) Interview S	ummary (PTO-413)	
	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s	s)/Mail Date	
	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	5) Notice of Ir 6) Other:	oformal Patent Application	
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Art Unit: 1745

FUEL CELL SHUTDOWN AND STARTUP USING A CATHDOE RECYCLE LOOP

Examiner: Yuan S.N. 10/780,488 Art Unit: 1745 April 18, 2007

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-10, drawn to a method of shutting down an operating fuel cell system,
 classified in class 429, subclass 13.
 - II. Claims 11-14, drawn to a method of starting a fuel cell system, classified in class429, subclass 13.
 - III. Claims 15-17, drawn to a device comprising at least one fuel cell, classified in class 429, subclass 34.
 - IV. Claims 18-27, drawn to a method of transiently operating a fuel cell system, classified in class 429, subclass 13.

The inventions are distinct, each from the other because of the following reason:

2. Inventions I, II and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation. Invention I discloses a method of shutting down an operating fuel cell system comprising decoupling the anode from the fuel source. Invention II disclosed a method of starting a fuel cell system comprising filling the anode with fuel.

Invention IV discloses a method of transiently operating a fuel cell system comprising selecting from one of two transient operating modes.

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3. Inventions I,II,IV and III are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). As admitted in the subject matter of the present claims the device as claimed can be practiced by four distinct methods as recited in claims 1-9,10,11-14 and 18-27, respectively.

- 4. If invention I is elected, an election of species is required. This application contains claims directed to the following patentably distinct species of the claimed invention.
- I-1, Claims 1-9, drawn to a method of shutting down an operating fuel cell system comprising a purge valve and introducing a purging fluid into the anode through the purge valve.
- I-2, Claim 10, drawn to a method of shutting down an operating fuel cell system composing a plurality of valves and sequentially introducing a substantially oxygen-depleted fluid from at least a portion of the recirculation loop and air from the air source into the anode through the purge valve.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, none of the claims is generic.

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5. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

- 6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 7. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dah-Wei D. Yuan whose telephone number is (571) 272-1295. The examiner can normally be reached on Monday-Friday (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan, can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dah-Wei D. Yuan April 18, 2007

PRIMARY EXAMINER